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Interpreting percentile ranks

Last year over 8000 students took an entrance exam at a certain state university. Hans's score was at the 40th percentile. Kira's score was at the 92nd percentile.
(If necessary, consult a [list of formulas](#).)

(a) Which of the following must be true about Hans's score?

- ☐ Hans scored higher than about 60% of the students who took the exam.
- ☒ About 60% of the students who took the exam scored higher than Hans.
- ☐ Hans got about 40% of the questions correct.
- ☐ Hans got about 40% of the questions wrong.

(b) Which of the following must be true about Hans's and Kira's scores?

- ☒ Kira scored higher than Hans.
- ☐ Both Hans and Kira scored higher than the median.
- ☐ Kira got 52 more questions correct than Hans.
- ☐ Hans's and Kira's scores were both in the bottom half of all scores.



Percentile - percentage of data that is less than or equal your data value



Interpreting percentile ranks

Last year over 10,000 students took an entrance exam at a certain state university. Jina's score was at the 44th percentile. Aldo's score was at the 29th percentile.
(If necessary, consult a [list of formulas](#).)

(a) Which of the following must be true about Jina's and Aldo's scores?

- ☐ Jina answered 15 more questions correctly than Aldo.
- ☐ Aldo answered 15 more questions correctly than Jina.
- ☐ Both Jina and Aldo scored above the median.
- ☒ Both Jina and Aldo scored below the median.

(b) Which of the following must be true about Jina's score?

- ☐ Jina got about 44% of the questions correct.
- ☐ Jina's score was in the top half of all scores.
- ☐ Jina missed 56 questions.
- ☒ Jina scored lower than about 56% of the students who took the exam.



Percentile - what percent of data is below your data value

Below Above
 $100 - 44 = 56$

Interpreting percentile ranks

Last year over 10,000 students took an entrance exam at a certain state university. Reuben's score was at the 28th percentile. Debra's score was at the 56th percentile.
(If necessary, consult a [list of formulas](#).)

(a) Which of the following must be true about Reuben's score?

- ☒ About 28% of the students who took the exam scored lower than Reuben.
- ☐ Reuben got about 28% of the questions correct.
- ☐ Reuben's score was in the top half of all scores.
- ☐ Reuben missed 72 questions.

(b) Which of the following must be true about Reuben's and Debra's scores?

- ☐ Both Reuben and Debra scored higher than the median.
- ☐ Both Reuben and Debra scored below the median.
- ☒ Debra scored higher than Reuben.
- ☐ Reuben scored higher than Debra.



Percentile - what percent of the data is below your data value

28 56

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